19. DATA SHEETS

DATA SHEET 1

VEHICLE INFORMATION

MAKE/MODEL/BODY STYLE: _____

MODEL YEAR: _____ ; MANUFACTURE DATE: _____

NHTSA NO.: _____ ; VIN: _____

GVWR: _____ ; WHEELBASE: _____

GAWR FRONT: _____ ; GAWR REAR: _____

FOR BUSES ONLY - -

CHASSIS MFR.: _____

SERIAL NO.: _____; NO. OF SEATS: _____

MANUFACTURE DATE: _____

ENGINE TYPE: _____; DISPLACEMENT: _____

ENGINE HORSEPOWER: _____; IDLE SPEED: _____

TRANSMISSION TYPE: _____; NO. OF AXLES: _____

TIRE SIZE: _____; TYPE: _____

TIRE MANUFACTURER: _____

RECOMMENDED PRESSURE AT GVWR: FRONT - _____ psi; REAR - _____ psi

BRAKES - FRONT: DRUM _____ DISC _____

BRAKES - REAR: DRUM _____ DISC _____

BRAKE ACTUATION - Describe Hydraulic Circuit Split: _____

_____

_____

19. DATA SHEETS....Continued

BRAKE POWER UNIT: ___ Hydraulic ; ___ Vacuum ; ___ Other

	YES	NO
BRAKE POWER ASSIST UNIT:	___	___
BRAKE POWER UNIT WITH ACCUMULATOR:	___-	___
BRAKE POWER ASSIST OR POWER UNIT WITH BACKUP:	___	___
VARIABLE PROPORTIONING SYSTEM:	___	___
ANTISKID DEVICE:	___	___

MFR - _____

PARKING MECHANISM: ___ ___

DESCRIBE - _____

BRAKE MASTER CYLINDER DIAMETER: _____

BRAKE PEDAL RATIO: _____

FRONT BRAKE COMPONENT MATERIALS AND CONSTRUCTION:

FOR DRUM BRAKES				FOR DISC BRAKES			
	MATERIAL		**CONSTRUCTION**		**MATERIAL**		**CONSTRUCTION**
	Cast Iron		Cast		Cast Iron		Integral Cast
	Steel		Composite		Steel		2-Piece
	Bi-Metallic		Centrifuse		Bi-Metallic		Vented
			Pressed				Unvented

FRONT BRAKE DIAMETER: Inside - _____; Outside - _____

FRONT DISC BRAKE THICKNESS (include vent): _____

FRONT DRUM BRAKE SHOE CAGE DIAMETER: Left - _____ ; Right - _____

DIAMETER RESET TO: Left - _____ ; Right - _____

19. DATA SHEETS....Continued

FRONT BRAKE COMPONENT DIMENSIONS AND LINING CODE/COLOR:

	FOR DRUM BRAKES		FOR DISC BRAKES	
WIDTH	Primary		Inboard	
	Secondary		Outboard	
LENGTH	Primary		Inboard	
	Secondary		Outboard	
THICKNESS	Primary		Inboard	
	Secondary		Outboard	
CODE/COLOR	Primary *		Inboard	
	Secondary *		Outboard	

* Primary/Secondary may be leading/trailing or other _____

HYDRAULIC PISTON DIAMETER:

DRUM BRAKE WHEEL CYLINDER - _____

DISC BRAKE CALIPER - _____

REAR BRAKE COMPONENT MATERIALS AND CONSTRUCTION:

FOR DRUM BRAKES				FOR DISC BRAKES			
	MATERIAL		**CONSTRUCTION**		**MATERIAL**		**CONSTRUCTION**
	Cast Iron		Cast		Cast Iron		Integral Cast
	Steel		Composite		Steel		2-Piece
	Bi-Metallic		Centrifuse		Bi-Metallic		Vented
			Pressed				Unvented

REAR BRAKE DIAMETER: Inside - _____ ; Outside - _____

REAR DISC BRAKE THICKNESS (include vent): _____

REAR DRUM BRAKE SHOE CAGE DIAMETER: Left - _____ ; Right - _____

DIAMETER RESET TO: Left - _____ ; Right - _____

19. DATA SHEETS....Continued

REAR BRAKE COMPONENT DIMENSIONS AND LINING CODE/COLOR:

	FOR DRUM BRAKES		FOR DISC BRAKES	
WIDTH	Primary		Inboard	
	Secondary		Outboard	
LENGTH	Primary		Inboard	
	Secondary		Outboard	
THICKNESS	Primary		Inboard	
	Secondary		Outboard	
CODE/COLOR	Primary *		Inboard	
	Secondary *		Outboard	

* Primary/Secondary may be leading/trailing or other _____

HYDRAULIC PISTON DIAMETER:

DRUM BRAKE WHEEL CYLINDER - _____

DISC BRAKE CALIPER - _____

OTHER COMPONENT INFORMATION:

Friction-type Parking Brake - _____ Hand Operated

_____ Foot Operated

Nonservice Brake Type Parking Brake - _____ Hand Operated

_____ Foot Operated

NOTE: If at any time after the test series has begun, any brake system part requires replacement or the brake system requires adjustments other than permitted in burnish and reburnish procedures, discontinue testing and notify the COTR immediately.

19. DATA SHEETS....Continued

DATA SHEET 2 (1 of 9)

SUMMARY OF TESTS

VEHICLE: _____ NHTSA NO.: _____

GVWR: _____

TEST	REQD PERFORMANCE	ACTUAL PERFORMANCE	PASS	FAIL
Max. Speed in 2 miles	None	_____ mph	N/A	N/A
FIRST EFFECTIVENESS	30 mph:	_____ of 6 stops pass		
	Pedal force, 15-150 lb Stopping distance, 57 ft for 1 stop	Best stop: _____ ft, _____ lb PF		
	60 mph:	_____ of 6 stops pass		
	Pedal force, 15-150 lb Stopping distance, 216 ft for 1 stop	Best stop: _____ ft, _____ lb PF		
SECOND EFFECTIVENESS	30 mph:	_____ of 6 stops pass		
	Pedal force, 15-150 lb Stopping distance, 54 ft for 1 stop	Best stop: _____ ft, _____ lb PF		
	60 mph:	_____ of 6 stops pass		
	Pedal force, 15-150 lb Stopping distance, 204 ft for 1 stop	Best stop: _____ ft, _____ lb PF		
	80 mph:	_____ of 4 stops pass		
	Pedal force, 15-150 lb Stopping distance, 383 ft for 1 stop	Best stop: _____ ft, _____ lb PF		

NOTE: Data Sheets 2, 5, 7, 11, 12, 13, 14, 15, 17, 21 and 23 indicate requirements for passenger cars ONLY! See Appendix 2 for required Stopping Distances. Refer to Test Procedure for all other requirements for OTHER categories of vehicles.

RECORDED BY: _____ DATE: _____

APPROVED BY: _____

19. DATA SHEETS....Continued

DATA SHEET 2 (2 of 9)

SUMMARY OF TESTS

VEHICLE: _____ NHTSA NO.: _____

GVWR: _____

TEST	REQD PERFORMANCE	ACTUAL PERFORMANCE	PASS	FAIL
Parking Brake REGULAR	Shall hold vehicle stationary for 5 minutes in both uphill and downhill direction on a 30% grade, both at LLVW and GVWR, with no more than 90 lb hand lever or 125 lb foot pedal force	Held stationary for 5 minutes? - - - - - - Yes/No NOTE: Uhill = Uphill and Dhill = Downhill Force (lbs) GVWR – Uhill _____ GVWR – Dhil _____ LLVW – Uhill _____ LLVW – Dhill _____ _____ Foot Pedal _____ Hand Lever	____ ____ ____ ____ ____	____ ____ ____ ____ ____
Parking Brake OPTIONAL	(1) Shall meet REGULAR PROCEDURE requirements with transmission in "PARK" (2) Shall meet REGULAR PROCEDURE requirements on 20% slope with transmission in "NUETRAL" (3) Parking mechanism shall not disengage or suffer damage in front and rear 2.5 mph moving barrier impacts	Force (lbs) GVWR/30%-Uhill _____ GVWR/30%-Dhill _____ GVWR/20%-Uhill _____ GVWR/20%-Dhill _____ LLVW/20%-Uhill _____ LLVW/20%-Dhill _____ LLVW/30%-Uhill _____ LLVW/30%-Dhill _____ Meets Moving Barrier Specification - - - - - - - -	____ ____ ____ ____ ____ ____ ____ ____ ____	____ ____ ____ ____ ____ ____ ____ ____ ____

REMARKS:

RECORDED BY: _____ DATE: _____

APPROVED BY: _____

19. DATA SHEETS....Continued

DATA SHEET 2 (3 of 9)

SUMMARY OF TESTS

VEHICLE: _____ NHTSA NO.: _____
GVWR: _____

TEST	REQD PERFORMANCE	ACTUAL PERFORMANCE	PASS	FAIL
THIRD EFFECTIVENESS (Light Load)	60 mph: Pedal Force: 15-150 lbs Stopping distance, 194 ft for 1 of 6 stops with any subsystem	_____of 6 stops pass		
		Best stop: _____ ft, _____ lb PF		
PARTIAL FAILURE LLVW	60 mph: Pedal Force: 15-150 lbs Stopping distance, 456 ft for 1 of 4 stops with an subsystem failed	_____ failed: _____ of 4 stops pass Best stop: _____ ft, _____ lb PF		
		_____ failed: _____ of 4 stops pass Best stop: (max) _____ ft, _____ lb PF		
PARTIAL FAILURE GVWR	60 mph: Pedal Force: 15-150 lbs Stopping distance, 456 ft for 1 of 4 stops with any subsystem failed	_____ failed: _____ of 4 stops pass Best stop: (max) _____ ft, _____ lb PF		
		_____ failed: _____ of 4 stops pass Best stop: (max) _____ ft, _____ lb PF		
PARTIAL FAILURE ANTILOCK AND/OR VARIABLE PROPORTIONING BRAKE SYSTEMS GVWR	60 mph: Pedal Force: 15-150 lb Stopping distance, 456 ft for 1 of 4 stops with any subsystem failed	_____ failed: _____ of 4 stops pass Best stop: (max) _____ ft, _____ lb PF		
		_____ failed: _____ of 4 stops pass Best stop: (max) _____ ft, _____ lb PF		

RECORDED BY: _____ DATE: _____

APPROVED BY: _____

19. DATA SHEETS....Continued

DATA SHEET 2 (4 of 9)

SUMMARY OF TESTS

VEHICLE: _____ NHTSA NO.: _____

GVWR: _____

TEST	REQD PERFORMANCE	ACTUAL PERFORMANCE	PASS	FAIL
INOPERATIVE POWER UNIT	60 mph: Pedal Force: 15-150 lbs Stopping distance, 456 ft for 1 of 4 stops with power dis-connected and reserve depleted	_____ of 4 stops pass		
		Best stop: _____ ft, _____ lb PF		
INOPERATIVE POWER UNIT - OPTIONAL PROCEDURE (Brake Power Assist Units)	6 stops from 60 mph, at specified decelerations 7th stop at not less than 7 fpsps (554 ft)			
		7th stop: _____ fpsps decel _____ lb PF		
INOPERATIVE POWER UNIT - OPTIONAL PROCEDURE (Accumulator Systems)	10 stops from 60 mph, at specified decelerations 11th stop at not less than 7 fpsps (554 ft)			
		11th stop: _____ fpsps decel _____ lb PF		
INOPERATIVE POWER UNIT - OPTIONAL PROCEDURE (Backup Systems)	15 stops from 60 mph, at average deceleration of 12 fpsps (stopping distance, 323 ft)	_____ of 15 stops within 323 ft		
		Worst stop: _____ fpsps decel _____ lb PF		

REMARKS:

RECORDED BY: _____ DATE: _____

APPROVED BY: _____

19. DATA SHEETS....Continued

DATA SHEET 2 (5 of 9)

SUMMARY OF TESTS

VEHICLE: _____ NHTSA NO.: _____

GVWR: _____

TEST	REQD PERFORMANCE	ACTUAL PERFORMANCE	PASS	FAIL
FIRST FADE AND RECOVERY (Baseline)	30 mph: 3 stops at 10 fpsps Pedal force: 10-60 lb	Average Control Force _____ lb PF		
FIRST FADE AND RECOVERY (Fade)	60 mph: Pedal force: 15-150 lb (min) Stops 1-5: 15 fpsps decel (min) Stops 6-10: 5-15 fpsps decel	Stops 1-5: _____ fpsps decel (min) _____ lb PF (max)		
		Stops 6-10: _____ fpsps decel (min) _____ lb PF (max)		
FIRST FADE AND RECOVERY (Recovery)	30 mph: Make 5 stops at not less than 10 fpsps. (1) a max for 1st 4 recovery stops of 150 lb, and for the 5th stop, of 20 lb more than the avg control force for the baseline check; and (2) a min of (a) the avg control force for the baseline check minus 10 lb, or (b) the baseline check times 0.6, which-ever is lower (but in no case less than 5 lb) Allowable range: _____ to _____ pounds	Stops 1-4: _____ fpsps decel (min) _____ lb PF (max)		
		Stop 5: _____ fpsps decel (min) _____ lb PF (max)		

REMARKS:

RECORDED BY: _____ DATE: _____

APPROVED BY: _____

19. DATA SHEETS....Continued

DATA SHEET 2 (6 of 9)

SUMMARY OF TESTS

VEHICLE: _____ NHTSA NO.: _____

GVWR: _____

TEST	REQD PERFORMANCE	ACTUAL PERFORMANCE	PASS	FAIL
SECOND FADE AND RECOVERY (Baseline)	30 mph: 3 stops at 10 fpsps Pedal force: 10-60 lb	Average Control Force _____ lb PF		
SECOND FADE AND RECOVERY (Fade)	60 mph: Pedal force: 15-150 lb (min) Stops 1-5: 15 fpsps decel (min) Stops 6-10: 5-15 fpsps decel	Stops 1-5: _____ fpsps decel (min) _____ lb PF (max)		
		Stops 6-10: _____ fpsps decel (min) _____ lb PF (max)		
SECOND FADE AND RECOVERY (Recovery)	30 mph: Make 5 stops at not less than 10 fpsps. (1) a max for 1st 4 recovery stops of 150 lb, and for the 5th stop, of 20 lb more than the avg control force for the baseline check; and (2) a min of (a) the avg control force for the baseline check minus 10 lb, or (b) the baseline check times 0.6, which-ever is lower (but in no case less than 5 lb) Allowable range: _____ to _____ pounds	Stops 1-4: _____ fpsps decel (min) _____ lb PF (max)		
		Stop 5: _____ fpsps decel (min) _____ lb PF (max)		

REMARKS:

RECORDED BY: _____ DATE: _____

APPROVED BY: _____

19. DATA SHEETS....Continued

DATA SHEET 2 (7 of 9)

SUMMARY OF TESTS

VEHICLE: _____ NHTSA NO.: _____

GVWR: _____

TEST	REQD PERFORMANCE	ACTUAL PERFORMANCE	PASS	FAIL
FOURTH EFFECTIVENESS	0. 30 mph: Pedal force: 15-150 lb Stopping distance: 57 ft for 1 of 6 stops	____ of 6 stops pass Best stop: (max) _____ ft, _____ lb PF		
	60 mph: Pedal force: 15-150 lb Stopping distance: 216 ft for 1 of 6 stops	____ of 6 stops pass Best stop: (max) _____ ft, _____ lb PF		
	80 mph: Pedal force: 15-150 lb Stopping distance: 405 ft for 1 of 4 stops	_____ of 4 stops pass Best stop: (max) _____ ft, _____ lb PF		
	95/100 mph: Pedal force: 15-150 lb Stopping distance: 607/673 ft for 1 of 4 stops	_____ of 4 stops pass Best stop: (max) _____ ft, _____ lb PF		
WATER RECOVERY (Baseline)	30 mph: 3 stops at 10 fpsps Pedal force: 10-60 lb	Average Control Force _____ lb PF		
WATER RECOVERY (Recovery)	30 mph: Make 5 stops at not less than 10 fpsps. (1) a max for 1st 4 recovery stops of 150 lb, and for the 5th stop, of 45 lb more than the avg control force for the baseline check; and (2) a min of (a) the avg control force for the baseline check minus 10 lb, or (b) the baseline check times 0.6, which-ever is lower (but in no case less than 5 lb) Allowable range: _____ to _____ pounds	Stops 1-4: _____ fpsps decel (min) _____ lb PF (max)		
		Stop 5: _____ fpsps decel (min) _____ lb PF (max)		

19. DATA SHEETS....Continued

DATA SHEET 2 (8 of 9)

SUMMARY OF TESTS

VEHICLE: _____ NHTSA NO.: _____

GVWR: _____

TEST	REQD PERFORMANCE	ACTUAL PERFORMANCE	PASS	FAIL
SPIKE STOPS	30 mph: Vehicle shall be capable of making 10 spike stops	_____ stops completed Max. pedal force ____ lb		
POST SPIKE EFFECTIVENESS	60 mph: Pedal force: 15-150 lb Stopping distance: 216 ft for 1 of 6 stops	____ of 6 stops pass Best stop: (max) _____ ft, _____ lb PF		
MOVING BARRIER (For vehicles tested by the Optional Parking Brake Procedure)	Parking mechanism shall not disengage or fracture when vehicle is subjected to front and rear 2.5 mph moving barrier impacts	Front Impact: Vehicle Movement? Yes __ ; No__		
		Rear Impact: Vehicle Movement? Yes __ ; No__		

REMARKS:

RECORDED BY: _____ DATE: _____

APPROVED BY: _____

19. DATA SHEETS....Continued

DATA SHEET 2 (9 of 9)
SUMMARY OF TESTS

VEHICLE: _____ NHTSA NO.: _____

GVWR: _____

TEST	REQD PERFORMANCE	ACTUAL PERFORMANCE	PASS	FAIL
FINAL INSPECTION - LINING	Firmly attached to backing	Yes _____ ; No_____		
	Areas 90% of original	Yes _____ ; No_____		
	Working surface free of lubricant or fluid	Yes _____ ; No_____		
FINAL INSPECTION - MECHANICAL	Components must be intact and functional	Yes _____ ; No_____		
FINAL INSPECTION - HYDRAULIC	Components must be leak free	Yes _____ ; No_____		
	Independent reservoirs must have adequate vol.	Yes _____ ; No_____		
	Total reservoir volume must be adequate	Yes _____ ; No_____		
FINAL INSPECTION - INDICATOR LAMP	Lit when key is ON or in "check" position Lit when following occur either (A), (C) or (D) or else (B), (C) or (D) (A) Gross pressure loss, (B) Unsafe fluid level, (C) Electrical failure, (D) Parking brake on.	Lit for check of function: Yes _____ ; No_____		
		Lit for (A): Yes _____ ; No_____		
		Lit for (B): Yes _____ ; No_____		
		Lit for (C): Yes _____ ; No_____		
		Lit for (D): Yes _____ ; No_____		
		Color meets requirement: Yes _____ ; No_____		
		Lettering meets reqmt: Yes _____ ; No_____		
(For vehicles without split service brake system)	Indicator lamp flashes and is accompanied by audible signal:	Yes _____ ; No_____ NA _____		

RECORDED BY: _____ DATE: _____

APPROVED BY: _____

19. DATA SHEETS....Continued

DATA SHEET 3
VEHICLE WEIGHT

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

SCALE(S) USED: _____

NOTE: GVWR, LLVW and axle weights to measured within + 0% and -1%.

GVWR INFORMATION (taken from vehicle Certification Label):

GVWR - _____ lb
GVWR Front - _____ lb
GVWR Rear - _____ lb

TARGET AXLE WEIGHT:
Front - _____ lb
Rear - _____ lb

UNLOADED VEHICLE WEIGHT (UVW):

Left Front - _____ lb
Right Front - _____ lb
Left Rear - _____ lb
Right Rear - _____ lb

Total Front - _____ lb
Total Rear - _____ lb

Total UVW - _____ lb

LIGHT LOADED VEHICLE WEIGHT (LLVW):

Note 1: LLVW = UVW + 400 lb
Note 2: Weight distributed in front passenger seat area
Note 3: Neither axle load at LLVW less than at UVW; ballast as required

Left Front - _____ lb
Right Front - _____ lb
Left Rear - _____ lb
Right Rear - _____ lb

Total Front - _____ lb
Total Rear - _____ lb

Total LLVW - _____ lb

(Continued on next page)

19. DATA SHEETS....Continued

ACTUAL TEST LLVW:

Left Front - _____ lb Left Rear - _____ lb
Right Front - _____ lb Right Rear - _____ lb

Total Front - _____ lb Total Rear - _____ lb

Total Actual Test LLVW - _____ lb

Load: Drvr/Observer -____# + Instru.-____# + Ballast-____# = 400 lbs

FULLY LOADED VEHICLE WEIGHT (GVWR):

Note 1: Vehicle loaded so axle loads proportional to GAWR shown previously
Note 2: But no axle weight to be less than at LLVW
Load: Drvr/Observer -____# + Instru.-____# + Ballast-____# = 400 lbs

Left Front - _____ lb Left Rear - _____ lb
Right Front - _____ lb Right Rear - _____ lb

Total Front - _____ lb Total Rear - _____ lb

Total GVWR - _____ lb

DATA INDICATES COMPLIANCE: Yes - _____ ; No - _____ ; No Reqmts - _____

REMARKS:

DRIVER: _____ ; OBSERVER: _____

RECORDED DATA PROCESSED BY: _____ DATE: _____

APPROVING LAB. OFFICIAL: _____ DATE: _____

19. DATA SHEETS....Continued

DATA SHEET 4
MAXIMUM SPEED

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TEMP.: _____ °F; WIND VEL./DIRECT.: _____ ; TEST WT: _____ lbs

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

SPEED VS. DISTANCE DETERMINATION:
GVWR, accelerate from 0 mph to maximum speed attainable in 2 miles or to 104 mph. Record distances to speeds.

MAXIMUM ACCELERATION (Visual):
0 to 40 mph - _____ time in seconds
0 to 60 mph - _____ time in seconds
0 to 80 mph - _____ time in seconds

MAXIMUM SPEED:
Visual - _____ mph
Recorded - _____ mph
Chart Speed - _____ mph (Multiplier - _____)

INSTRUMENTATION CHECK:
GVWR, 10 stops, 30 to 0 mph, 10 fpsps, 150 - 200°F IBT

	Visual Data					Recorded Data				
Stop No.	Temp. (°F)	Speed (mph)	Stop. Dist. (ft)	Avg. Sust. Ped. Force (lb)	Avg. Sust. Decel. (fpsps)	Temp. (°F)	Speed (mph)	Stop. Dist. (ft)	Avg. Sust. Ped. Force (lb)	Avg. Sust. Decel. (fpsps)
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

19. DATA SHEETS....Continued

COMMENTS:

Instruments functional Yes - _____ No - _____
If no, additional 10 stops permitted.
Record on additional data sheet.
Recorder Chart Speed - _____ Multiplier - _____

DATA INDICATES COMPLIANCE: Yes - _____; No - _____; No Reqmts - _____

REMARKS:

DRIVER: _____ ; OBSERVER: _____

RECORDED DATA PROCESSED BY: _____ DATE: _____

APPROVING LAB. OFFICIAL: _____ DATE: _____

19. DATA SHEETS....Continued

DATA SHEET 5

FIRST EFFECTIVENESS (S7.3)

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TEMP.: _____ °F; WIND VEL./DIRECT.: _____ ; TEST WT: _____lbs

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

FIRST EFFECTIVENESS SCHEDULE:

GVWR 150-200°F IBT, 6 stops in neutral, 30 & 60-0 mph

FIRST EFFECTIVENESS REQUIREMENTS:

1 Stop, 30 mph 57 ft, 60 mph 216 ft, pedal force 150, lockup 1 wheel, stay in 12 ft lane

ENTER DATA IN TABLE SHOWN ON NEXT PAGE.

COMMENTS:

Recorder Chart Speed - _____ Multiplier - _____

DATA INDICATES COMPLIANCE: Yes - _____ ; No - _____ ; No Reqmts - _____

REMARKS:

DRIVER: _____; OBSERVER: _____

RECORDED DATA PROCESSED BY: _____ DATE: _____

APPROVING LAB. OFFICIAL: _____ DATE: _____

19. DATA SHEETS....Continued

Stop No.	Initial Brake Temperature, °F		Speed (mph)	Stopping Distance (ft)	Maximum Pedal Force (lb)	Max. Decel (fpsps)	Wheel Lockup above 10 mph	Direction of Stop	Stay In Lane
	F	R							
30 mph Visual Data									
1									
2									
3									
4									
5									
6									
60 mph Visual Data									
1									
2									
3									
4									
5									
6									
30 mph Recorded Data							**Wheel Lockup**	**Average Sustained Pedal Force**	**Average Sustained Decel. (fpsps)**
1									
2									
3									
4									
5									
6									
60 mph Recorded Data									
1									
2									
3									
4									
5									
6									

19. DATA SHEETS....Continued

DATA SHEET 6

BURNISH AND ADJUSTMENT (S7.4)

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TEMP.: _____ °F; WIND VEL./DIRECT.: _____ ; TEST WT: _____ lbs

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

BURNISH SCHEDULE:

GVWR, 200 stops in gear, 40-0 mph, 12 fpsps decel, 230-270°F IBT or 1 mile interval whichever is shorter.

BURNISH REQUIREMENTS:

Lockup ≤ 1 wheel, stay in 12 ft lane. NOTE: Pedal force may exceed 150 lb.

Visual Data								Recorded Data				
Stop No.	Initial Brake Temperature, °F				Speed (mph)	Maximum Pedal Force (lb)	Average Sust. Decel. (fpsps)	Avg. Brake Temp. (°F)		Speed (mph)	Average Sust. Ped.Force (lb)	Avg. Sust. Decel. (fpsps)
	LF	RF	LR	RR				F	R			
1												
25												
50												
75												
100												
125												
150												
175												
200												

COMMENTS:

Recorder Chart Speed - _____ Multiplier - _____

(Continued on next page)

19. DATA SHEETS....Continued

BRAKE ADJUSTMENT (Post Burnish) SCHEDULE:

Adjust service brake per manufacturer's specification.
Record manufacturer's procedure and amount adjusted.

Left Front - _____

Right Front - _____

Left Rear - _____

Right Rear - _____

Manufacturer's Procedure - _____

DATA INDICATES COMPLIANCE: Yes - _____ ; No - _____ ; No Reqmts - _____

REMARKS:

DRIVER: _____ ; OBSERVER: _____

RECORDED DATA PROCESSED BY: _____ DATE: _____

APPROVING LAB. OFFICIAL: _____ DATE: _____

19. DATA SHEETS....Continued

DATA SHEET 7

SECOND EFFECTIVENESS (S7.5)

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TEMP.: _____ °F; WIND VEL./DIRECT.: _____ ; TEST WT: _____ lbs

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

SECOND EFFECTIVENESS SCHEDULE:

GVWR, 6 stops in neutral, 30, 60 and 80-0 mph, 150-200°F IBT.
Recorder Chart Speed - _____ Multiplier - _____

SECOND EFFECTIVENESS REQUIREMENTS:

1 stop, 30 mph 54 ft, 60 mph 204 ft, 80 mph 383 ft, pedal force ≤ 150, lockup ≤ 1 wheel, stay in 12 ft lane

ENTER DATA IN TABLE SHOWN ON NEXT PAGE.

DATA INDICATES COMPLIANCE: Yes - _____ ; No - _____ ; No Reqmts - _____

REMARKS:

DRIVER: _____ ; OBSERVER: _____

RECORDED DATA PROCESSED BY: _____ DATE: _____

APPROVING LAB. OFFICIAL: _____ DATE: _____

19. DATA SHEETS....Continued

	Stop No.	Initial Brake Temperature, EF		Speed (mph)	Stopping Distance (feet)	Maximum Pedal Force (lb)	Maximum Decel. (fpsps)	Wheel Lockup above 10 mph	Direction of Stop	Stay In Lane
		F	R							
30 mph Vis Data	1									
	2									
	3									
	4									
	5									
	6									
60 mph Vis Data	1									
	2									
	3									
	4									
	5									
	6									
80 mph Vis Data	1									
	2									
	3									
	4									

								Wheel Lockup	Average Sustained Pedal Force	Average Sustained Decel. (fpsps)
60 mph Rec Data	1									
	2									
	3									
	4									
	5									
	6									
60 mph Rec Data	1									
	2									
	3									
	4									
	5									
	6									
80 mph Rec Data	1									
	2									
	3									
	4									

19. DATA SHEETS....Continued

DATA SHEET 8

REBURNISH AND ADJUSTMENT (S7.6)

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TEMP.: _____ °F; TEST WT: _____ lbs; GVWR: _____ LLVW

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

FIRST REBURNISH SCHEDULE:

GVWR, 35 stops in gear, 40-0 mph, 12 fpsps decel, 230-270°F IBT or 1 mile interval whichever is shorter.

FIRST REBURNISH REQUIREMENTS:

Lockup ≤ 1 wheel, stay in 12 ft lane. NOTE: Pedal force may exceed 150 lb.

Visual Data								Recorded Data				
Stop No.	Initial Brake Temperature, °F				Speed (mph)	Maximum Pedal Force (lb)	Average Sust. Decel. (fpsps)	Avg. Brake Temp. (°F)		Speed (mph)	Average Sust. Ped.Force (lb)	Avg. Sust. Decel. (fpsps)
	LF	RF	LR	RR				F	R			
1												
10												
20												
30												
35												

COMMENTS:

Recorder Chart Speed - _____ Multiplier - _____

(Continued on next page)

19. DATA SHEETS....Continued

BRAKE ADJUSTMENT SCHEDULE:

Adjust service brake per manufacturer's specification.
Record manufacturer's procedure and amount adjusted.

Left Front - _____

Right Front - _____

Left Rear - _____

Right Rear - _____

Manufacturer's Procedure - _____

DATA INDICATES COMPLIANCE: Yes - _____ ; No - _____ ; No Reqmts - _____

REMARKS:

DRIVER: _____ ; OBSERVER: _____

RECORDED DATA PROCESSED BY: _____ DATE: _____

APPROVING LAB. OFFICIAL: _____ DATE: _____

19. DATA SHEETS....Continued

DATA SHEET 9

PARKING BRAKE (S7.7.1)

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TEMP: _____ °F; TEST WT:_____lbs; GVWR: _____ LLVW

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

PARKING BRAKE SCHEDULE:

GVWR & LLVW, IBT ≤ 150°F, neutral, 30% grade, vehicle held on grade with service brake pedal force ≤ 150lb, then parking brake applied and service brake released. 2 reapplications of force to service brake and parking brake allowed.

PARKING BRAKE REQUIREMENTS:

Hold vehicle stationary for 5 minutes, GVWR & LLVW, uphill and downhill, park brake pedal force ≤ 125 lb foot lever, ≤ 90 lb hand lever.

PARKING BRAKE: Hand Lever - _____ Foot Lever - _____

Visual Data									Recorded Data		
Weight (GVWR/ LLVW)	Brake Temperature,°F		Non-Service Elements (*)	Direct-ion (Uhill/ Dhill)	Per-cent Grade (%)	Min. Force to Hold (lb)	Number Reapp. Of Force	Service Brake Ped.Force (lb)	Average Brake Temp. (°F)	Min. Force To Hold (lb)	Service Brake Ped.Force (lb)
	LR	RR									

(*) MFRS BURNISH PROCEDURE FOR NON-SERVICE ELEMENTS & DATA:

PARKING BRAKE INDICATOR LAMP OPERATION: On - _____ Off- _____

(Continued on next page)

19. DATA SHEETS....Continued

COMMENTS:

Recorder Chart Speed - _____ Multiplier - _____

DATA INDICATES COMPLIANCE: Yes - _____ ; No - _____ ; No Reqmts - _____

DRIVER: _____ ; OBSERVER:_____

RECORDED DATA PROCESSED BY: _____ DATE: _____

APPROVING LAB. OFFICIAL: _____ DATE: _____

19. DATA SHEETS....Continued

DATA SHEET 10
OPTIONAL PARKING BRAKE (S7.7.2)

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TEMP.: _____ °F; TEST WT: _____ lbs; GVWR: _____ LLVW

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

OPTIONAL PARKING BRAKE SCHEDULE*:

Must satisfy ignition key requirement below to use.

GVWR & LLVW, IBT ≤ 150°F, parking mechanism engaged, 30% grade, vehicle held on grade with parking mechanism and service brake pedal force ≤ 150 lb, then parking brake applied and service brake released, 2 reapplications of force to service and parking brake allowed.

GVWR & LLVW, IBT ≤ 150°F, neutral (parking mechanism not engaged), 20% grade, held on grade as above without parking mechanism.

OPTIONAL PARKING BRAKE REQUIREMENTS:

Hold vehicle stationary for 5 minutes 30 & 20% grades, GVWR & LLVW, uphill and downhill, parking brake force ≤ 125 lb foot pedal & ≤ 90 lb hand lever.

Also must complete moving barrier test following final inspection.

IS IT NECESSARY TO ENGAGE THE TRANSMISSION PARKING MECHANISM TO REMOVE THE IGNITION KEY?

Yes - _____ No - _____

Describe Mechanism: _____

PARKING BRAKE: Hand Lever - _____ Foot Lever - _____

Visual Data									Recorded Data		
Weight (GVWR/ LLVW)	Brake Temperature,°F		Non-Service Elements (*)	Direct-ion (Uhill/ Dhill)	Per-cent Grade (%)	Min. Force to Hold (lb)	Number Reapp. Of Force	Serv. Brake Pedal Force (lb)	Average Brake Temp. (°F)	Min. Force To Hold (lb)	Service Brake Ped.Force (lb)
	LR	RR									

(Continued on next page)

19. DATA SHEETS....Continued

(*) MFRS BURNISH PROCEDURE FOR NON-SERVICE ELEMENTS & DATA:

PARKING BRAKE INDICATOR LAMP OPERATION: On - _____ Off- _____

COMMENTS:

DATA INDICATES COMPLIANCE: Yes - _____ ; No - _____ ; No Reqmts - _____

DRIVER: _____ ; OBSERVER: _____

RECORDED DATA PROCESSED BY: _____ DATE: _____

APPROVING LAB. OFFICIAL: _____ DATE: _____

19. DATA SHEETS....Continued

DATA SHEET 11

THIRD EFFECTIVENESS (S7.8)

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TEMP: _____ °F; WIND VEL./DIRECT: _____ ; TEST WT: _____ lbs

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

THIRD EFFECTIVENESS SCHEDULE:

LLVW, 6 stops, in neutral, 60-0 mph, 150-200°F IBT.

Recorder Chart Speed - _____ Multiplier - _____

THIRD EFFECTIVENESS REQUIREMENTS:

1 stop, 60 mph 194 ft, pedal force ≤ 150, lockup ≤ 1 wheel, stay in 12 ft lane

Stop No.	Initial Brake Temperature, °F		Speed (mph)	Stopping Distance (feet)	Maximum Pedal Force (lb)	Maximum Decel. (fpsps)	Wheel Lockup above 10 mph	Direct. of Stop	Stay In Lane
	F	R							
60 mph Visual Data									
1									
2									
3									
4									
5									
6									
60 mph Recorded Data							Wheel Lockup	Average Sustained Pedal Force	Average Sustained Decel. (fpsps)
1									
2									
3									
4									
5									
6									

(Continued on next page)

19. DATA SHEETS....Continued

DATA INDICATES COMPLIANCE: Yes - _____ ; No - _____ ; No Reqmts - _____

REMARKS:

DRIVER: _____ ; OBSERVER: _____

RECORDED DATA PROCESSED BY: _____ DATE: _____

APPROVING LAB. OFFICIAL: _____ DATE: _____

19. DATA SHEETS....Continued

DATA SHEET 12

PARTIAL FAILURE (S7.9)

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TEMP.: _____ °F; WIND VEL./DIRECT.: _____ ; TEST WT: _____ lbs

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

PARTIAL FAILURE SCHEDULE (Lightly Loaded Vehicle):

LLVW, 4 stops, in gear, with each subsystem inoperative, 60-0 mph, 150-200°F IBT; non-split system vehicle: 10 stops.

PARTIAL FAILURE REQUIREMENTS:

1 stop, 60 mph 456 ft, pedal force ≤ 150 lb, lockup allowed, stay in 12 ft lane. Warning light ON at 50 lb pedal force manual, 25 lb power, or 225 psi.

ENTER PARTIAL FAILURE DATA IN TABLE ON NEXT PAGE.

DATA INDICATES COMPLIANCE: Yes - _____ ; No - _____ ; No Reqmts - _____

COMMENTS:

Recorder Chart Speed - _____ Multiplier - _____

DRIVER: _____ ; OBSERVER: _____

RECORDED DATA PROCESSED BY: _____ DATE: _____

APPROVING LAB. OFFICIAL: _____ DATE: _____

19. DATA SHEETS....Continued

Stop Number	Initial Brake Temperature, °F		Speed (mph)	Stopping Distance (feet)	Maximum Pedal Force (lb)	Maximum Decel. (fpsps)	Wheel Lockup above 10 mph	Direction of Stop	Stay In Lane
	F	R							
60 mph: Visual Data System No. 1 Inoperative									
1									
2									
3									
4									
Thru 10: Warning light on at _____ lb PF (Visual meter), _____ psi line pressure _____ Fluid level sensor									
60 mph: Visual Data System No. 2 Inoperative									
1									
2									
3									
4									
Thru 10: Warning light on at _____ lb PF (Visual meter), _____ psi line pressure _____ Fluid level sensor.									

60 mph: Recorded Data System No. 1 Inoperative							Wheel Lockup	Average Sustained Pedal Force	Average Sustained Decel. (fpsps)
1									
2									
3									
4									
Thru 10: Warning light on at _____ lb PF (Recorded)									
60 mph: Recorded Data System No. 2 Inoperative									
1									
2									
3									
4									
Thru 10: Warning light on at _____ lb PF (Recorded)									

19. DATA SHEETS....Continued

DATA SHEET 13

PARTIAL FAILURE (S7.9.3)

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TEMP.: _____ °F; WIND VEL./DIRECT.: _____ ; TEST WT: _____ lbs

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

PARTIAL FAILURE SCHEDULE (Fully Loaded Vehicle):

GVWR, 4 stops, in gear, with each subsystem inoperative, 60-0 mph, 150-200°F IBT; non-split system vehicle: 10 stops.

PARTIAL FAILURE REQUIREMENTS:

1 stop, 60 mph 456 ft, pedal force ≤ 150 lb, lockup allowed, stay in 12 ft lane.

ENTER PARTIAL FAILURE DATA IN TABLE ON NEXT PAGE.

DATA INDICATES COMPLIANCE: Yes - _____ ; No - _____ ; No Reqmts - _____

COMMENTS:

Recorder Chart Speed - _____ Multiplier - _____

DRIVER: _____ ; OBSERVER: _____

RECORDED DATA PROCESSED BY: _____ DATE: _____

APPROVING LAB. OFFICIAL: _____ DATE: _____

19. DATA SHEETS....Continued

Stop Number	Initial Brake Temperature, °F		Speed (mph)	Stopping Distance (feet)	Maximum Pedal Force (lb)	Maximum Decel. (fpsps)	Wheel Lockup above 10 mph	Direction of Stop	Stay In Lane
	F	R							
60 mph: Visual Data System No. 2 Inoperative									
1									
2									
3									
4									
Thru 10: Once the light for low brake pressure or brake fluid level is ON, does it remain ON until the induced problem is corrected? Yes - ____ No - ____									
60 mph: Visual Data System No. 1 Inoperative									
1									
2									
3									
4									
Thru 10: Once the light for low brake pressure or brake fluid level is ON, does it remain ON until the induced problem is corrected? Yes - ____ No - ____									

60 mph: Recorded Data System No. 2 Inoperative							**Wheel Lockup**	**Average Sustained Pedal Force**	**Average Sustained Decel. (fpsps)**
1									
2									
3									
4									
Thru 10: Warning light on at _____ lb PF (Recorded)									
60 mph: Recorded Data System No. 1 Inoperative									
1									
2									
3									
4									
Thru 10: Warning light on at _____ lb PF (Recorded)									

19. DATA SHEETS....Continued

DATA SHEET 14

ANTILOCK OR VARIABLE PROPORTIONING BRAKE SYSTEM (S7.9.4)

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TEMP.: _____ °F; WIND VEL./DIRECT.: _____ ; TEST WT: _____ lbs

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

ANTILOCK OR VARIABLE PROPORTIONING BRAKE SYSTEM SCHEDULE:

GVWR, 4 stops, in gear, 60-0 mph, power reserves depleted, 150-200°F IBT

PARTIAL FAILURE REQUIREMENTS:

1 stop, 60 mph 456 ft, pedal force ≤ 150 lb, lockup allowed, stay in 12 ft lane.

ENTER ANTILOCK OR VAR. PROP. BRAKE SYSTEM DATA IN TABLE ON NEXT PAGE.

DATA INDICATES COMPLIANCE: Yes - _____ ; No - _____ ; No Reqmts - _____

COMMENTS:

Brake Warning Light Operation: On - _____ Off - _____
(for electrical failure of antilock or variable proportioning system)

Recorder Chart Speed - _____ Multiplier - _____

DRIVER: _____ ; OBSERVER: _____

RECORDED DATA PROCESSED BY: _____ DATE: _____

APPROVING LAB. OFFICIAL: _____ DATE: _____

19. DATA SHEETS....Continued

Stop Number	Initial Brake Temperature, °F		Speed (mph)	Stopping Distance (feet)	Maximum Pedal Force (lb)	Maximum Decel. (fpsps)	Wheel Lockup above 10 mph	Direction of Stop	Stay In Lane
	F	R							
60 mph: Visual Data System No. 1 Inoperative									
1									
2									
3									
4									
60 mph: Visual Data System No. 2 Inoperative									
1									
2									
3									
4									
60 mph: Recorded Data System No. 1 Inoperative							**Wheel Lockup**	**Average Sustained Pedal Force**	**Average Sustained Decel. (fpsps)**
1									
2									
3									
4									
60 mph: Recorded Data System No. 2 Inoperative									
1									
2									
3									
4									

19. DATA SHEETS....Continued

DATA SHEET 15

BRAKE POWER AND POWER ASSIST UNITS - REGULAR PROCEDURE (S7.10.1)

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TEMP.: _____ °F; WIND VEL./DIRECT.: _____ ; TEST WT: _____ lbs

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

REG. PROCED. - INOP. BRAKE POWER & POWER ASSIST UNITS SCHEDULE:

GVWR, 4 stops, in gear, 60-0 mph, power reserves depleted, 150-200°F IBT.

PARTIAL FAILURE REQUIREMENTS:

1 stop, 60 mph 456 ft, pedal force ≤ 150 lb, lockup allowed, stay in 12 ft lane.

ENTER DATA IN TABLE ON NEXT PAGE.

DATA INDICATES COMPLIANCE: Yes - _____ ; No - _____ ; No Reqmts - _____

COMMENTS:

Recorder Chart Speed - _____ Multiplier - _____

DRIVER: _____ ; OBSERVER: _____

RECORDED DATA PROCESSED BY: _____ DATE: _____

APPROVING LAB. OFFICIAL: _____ DATE: _____

19. DATA SHEETS....Continued

Stop Number	Initial Brake Temperature, °F		Speed (mph)	Stopping Distance (feet)	Maximum Pedal Force (lb)	Maximum Decel. (fpsps)	Wheel Lockup above 10 mph	Direction of Stop	Stay In Lane
	F	R							
60 mph: Visual Data System No. 1 Inoperative									
1									
2									
3									
4									
60 mph: Visual Data System No. 2 Inoperative									
1									
2									
3									
4									
60 mph: Recorded Data System No. 1 Inoperative							**Wheel Lockup**	**Average Sustained Pedal Force**	**Average Sustained Decel. (fpsps)**
1									
2									
3									
4									
60 mph: Recorded Data System No. 2 Inoperative									
1									
2									
3									
4									

19. DATA SHEETS....Continued

DATA SHEET 16 (Part 1 of 2)

BRAKE POWER AND POWER ASSIST UNITS - OPTIONAL PROCEDURE (S7.10.2)

VEHICLE: _____ ; NHTSA NO.: _____ ; DATE: _____

TEMP.: _____ °F; WIND VEL./DIRECT.: _____ ; TEST WT: _____ lbs

TIRE PRESSURE (Cold): Front - _____ Rear - _____

ODOMETER READING: Start - _____ Finish - _____

OPTIONAL PROCEDURE FOR INOP. BRAKE POWER & POWER ASSIST UNITS TEST CONTROL REQUIREMENTS:

Fully charge each unit and disconnect primary source of power, 60-0 mph, in gear, 150-200°F IBT, average deceleration specified in each stop. Number of stops depends on equipment used.

REQUIRED AVERAGE DECELERATION RATES:

Stop No.	Brake Power Assist (7 Stops)		Brake Power With Accumulator (11 Stops)		Brake Power Assist Or Brake Power With Backup (15 Stops)
	Deceleration (fpsps)	Equivalent Distance (ft)	Deceleration (fpsps)	Equivalent Distance (ft)	Deceleration/ Distance (fpsps/ft)
1	16.0	242	16.0	242	NOTE: Vehicles with this equipment shall make 15 stops at 12 fpsps, stopping distance 323 ft
2	12.0	323	13.0	298	
3	10.0	388	12.0	323	
4	9.0	431	11.0	352	
5	8.0	484	10.0	388	
6	7.5	517	9.5	409	
7	* 7.0	554	9.0	431	
8			8.5	456	
9			8.0	484	
10			7.5	517	
11			* 7.0	554	

* Depleted

(Continued on next page)